

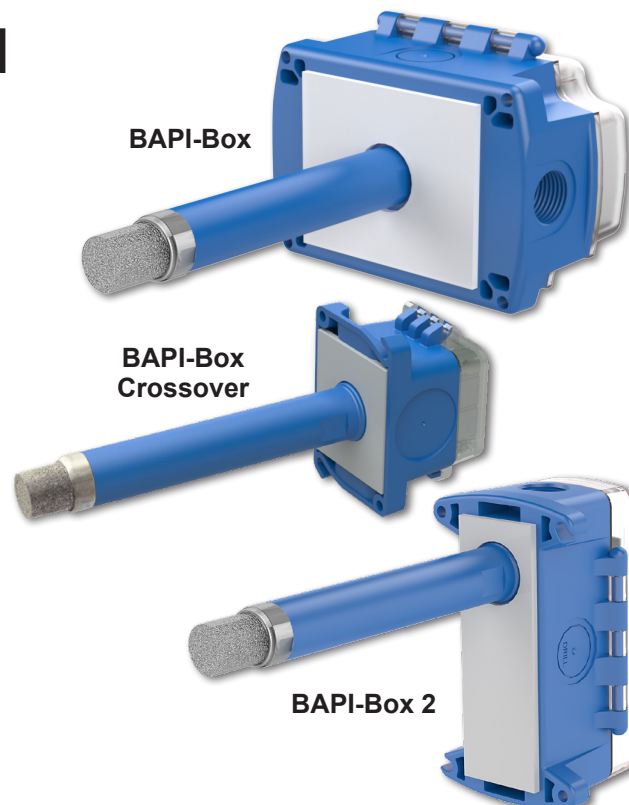


Features & Options

- 10 Points of Calibration from 10 to 90% RH
- Humidity Only or Temp./Humidity Combination
- Replaceable Stainless Steel Filter
- Green Power Indication LED on BAPI-Box Crossover Units
- $\pm 2\%$ and $\pm 3\%$ RH Accuracies

Humidity control is an important aspect of any climate control system. Therefore, humidity sensors must be both accurate and dependable. BAPI's humidity transmitters are calibrated at 10 points from 10 to 90% RH for accuracy, eliminating field calibration.

The Duct Units are also extremely dependable, featuring three of the most watertight enclosures available today. The BAPI-Box, BAPI-Box 2 and BAPI-Box Crossover Enclosures are made of UV-resistant polycarbonate and carry an IP66 rating. The BAPI-Box is only available for units with a temperature transmitter and a humidity transmitter.



The BAPI-Box Crossover Enclosure

The BAPI-Box Crossover features a hinged cover with thumb latch for easy termination. A pierceable knockout plug is available for the open port. See the Accessories section for more info.

(Unit shown with knockplug plug sold separately.)

Specifications

Power:

10 to 35 VDC, 22 mA maxFor units with 0 to 5 or 1 to 5 VDC or 4 to 20 mA Humidity Output

15 to 35 VDC, 6 mA maxFor units with 0 to 10 or 2 to 10 VDC Humidity Output

12 to 27 VAC, 0.53 VA maxFor units with 0 to 5 or 1 to 5 VDC Humidity Output

15 to 27 VAC, 0.14 VA maxFor units with 0 to 10 or 2 to 10 VDC Humidity Output

Enclosure Dimensions:

H x W x D

BAPI-Box Crossover:.....3.1 x 2.2 x 1.9" (79 x 56 x 49mm)

BAPI-Box5 x 4.1 x 2.5" (127 x 104 x 63.5mm)

BAPI-Box 2:.....4.9 x 2.8 x 2.35" (125 x 71.6 x 60mm)

(For enclosure dimension drawings, turn to the end of the section.)

Sensor:

2% Humidity: Capacitive $\pm 2\%$ (10 to 80% RH @ 25°C)
 $\pm 3\%$ (80 to 90% RH @ 25°C)

3% Humidity: Capacitive $\pm 3\%$ (10 to 90% RH @ 25°C)

Temp: Thermistor or RTD (See Sensors section for specs)

Enclosure Rating:

BAPI-Box Crossover: IP10, NEMA 1 (IP44 with knockout plug)

BAPI-Box and BAPI-Box 2: IP66, NEMA 4X

BAPI-Box and BAPI-Box 2 Material:

UV-resistant Polycarbonate, UL94 V-0

BAPI-Box Crossover Material:

Cover: Polycarbonate, UL94 V-0

Base: Nylon, UL94 HB

Environmental Operation Range:

Temperature: -40 to 158°F (-40 to 70°C)

Humidity: 0 to 100% RH

Fully Temperature Compensated

Agency: CE EN 61326-1:2013 EMC*

*CE applies to BAPI-Box units only





Use the Option Selection Guides below to create your custom part number. Replace the number and parenthesis with the designator for each selection. Skip the designator and dashes for optional selections that are not required in your configuration. Additional options are available but not shown above. Contact BAPI for the complete list of options.

Option Selection Guide
Duct Units with Optional Temperature Sensor

BA/ (#1) - (#2) - (#3)

#1: Temp Sensor (Optional)
 1.8K 1.8K Thermistor
 3K 3K Thermistor
 10K-2 10K-2 Thermistor
 10K-3 10K-3 Thermistor
 10K-3[11K]... 10K-3[11K] Thermistor
 20K 20K Thermistor
 1K[375]..... 1K Plat. RTD (375 curve)
 1K 1K Plat. RTD (385 curve)
 1K[NI]..... 1K Nickel RTD

#2: Humidity Output (Required)
 H200 ... ±2% Accuracy, 0 to 5V Output
 H215 ... ±2% Accuracy, 1 to 5V Output*
 H210 ... ±2% Accuracy, 0 to 10V Output
 H212 ... ±2% Accuracy, 2 to 10V Output*
 H220 ... ±2% Accuracy, 4 to 20mA Output
 H300 ... ±3% Accuracy, 0 to 5V Output
 H315 ... ±3% Accuracy, 1 to 5V Output*
 H310 ... ±3% Accuracy, 0 to 10V Output
 H312 ... ±3% Accuracy, 2 to 10V Output*
 H320 ... ±3% Accuracy, 4 to 20mA Output

#3: Enclosure (Required)
 D-BBX....BAPI-Box Crossover (IP10, NEMA 1)
 D-BB2....BAPI-Box 2 (IP66, NEMA 4)

**Not available with the BAPI-Box Crossover*

Example Number:

BA/(10K-2) - (H200) - (D-BBX)

BA/10K-2-H200-D-BBX (no parenthesis)

Description: 10K-2 Thermistor, ±2%RH with 4 to 20mA Output, BAPI-Box Crossover

Option Selection Guide
Duct Units with a Temperature Transmitter

BA/ (#1)(#2) - (#3) - (#4) - (#5)

#1: Temp Transmitter (Required)
 T1K 4 to 20mA Output
 TXS05 0 to 5V Output*
 TXS10 0 to 10V Output*
 TXS12 2 to 10V Output*
 TXS15 1 to 5V Output*

#2: Temperature Range (Required)
 [32 TO 212F] ... 32 to 212°F Range
 [20 TO 120F] ... 20 to 120°F Range
 [0 TO 100F] 0 to 100°F Range
 [0 TO 100C] 0 to 100°C Range
 [-7 TO 49C] -7 to 49°C Range
 [-18 TO 38C] -18 to 38°C Range

#3: Humidity Output (Required)
 H200 ... ±2% Accuracy, 0 to 5V Output
 H215 ... ±2% Accuracy, 1 to 5V Output
 H210 ... ±2% Accuracy, 0 to 10V Output
 H212 ... ±2% Accuracy, 2 to 10V Output
 H220 ... ±2% Accuracy, 4 to 20mA Output
 H300 ... ±3% Accuracy, 0 to 5V Output
 H315 ... ±3% Accuracy, 1 to 5V Output
 H310 ... ±3% Accuracy, 0 to 10V Output
 H312 ... ±3% Accuracy, 2 to 10V Output
 H320 ... ±3% Accuracy, 4 to 20mA Output

#4: BAPI-Box Enclosure (Required)
 D-BB BAPI-Box (IP66, NEMA 4)

**Voltage outputs are field selectable*

Example Number:

BA/(T1K)([32 TO 212F]) - (H200) - (D-BB)

BA/T1K[32 TO 212F]-H200-D-BB (no parenthesis)

Description: Temperature Transmitter with 4 to 20mA Output and 32 to 212°F Range, ±2%RH with 4 to 20mA Output, BAPI-Box Enclosure

Your Number: BA/

